



# SAFETY DATA SHEET

## COMPLEX FERTILISERS WITH AMMONIUM NITRATE (>45% and < 70%)

**CODE: DS – 089-I**  
**EDITION: 2**  
**DATE: 06/07/2019**  
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### Section 1 – IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF COMPANY

#### 1.1 Product Identifier

<b>Name of Product</b>	NPK FERTILISER WITH AMMONIUM NITRATE (> 45% and < 70%) <b>CE FERTILISER</b>
<b>Trade name</b>	DYNAMIC 27-06-06, 26-06-06 and 22-6-10
<b>Common synonyms</b>	Compound fertilisers, Complex fertilisers
<b>Molecular formula</b>	Not applicable
<b>EU Index Number (Annex 1)</b>	Not applicable
<b>CAS Number</b>	Not applicable
<b>EC number</b>	Not applicable
<b>REACH registration number</b>	Not applicable

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** Use as a fertiliser

**Uses advised against:** Other unspecified use

#### 1.3 Identification of safety data sheet supplier

**COMPANY:** ADP – Fertilizantes, S.A.  
**ADDRESS:** 10 Estrada Nacional  
 2615-907 Alverca  
 Portugal

**☎** (+351) 210 300 400  
**Fax:** (+351) 210 300 500  
**Email:** [msds@adp-fertilizantes.pt](mailto:msds@adp-fertilizantes.pt)

#### 1.4 Emergency Telephone number

SOPAC – Sociedade Produtora de Adubos Compostos S.A.

National Emergency Number

INEM - National Institute of Medical Emergencies (Poison Control Information Centre)

National Poison Information Service (NPIS)

**☎** (+351) 265 030 496

**☎** 112 (PT) / 999 (UK)

**☎** (+351) 808 250 143

**☎** 08454 24 24 24 (UK only)

### Section 2 – HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

- Not classified as dangerous

#### 2.2 Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Not applicable

#### 2.3 Other hazards

##### 2.3.1 PBT/ vPvB criteria

In accordance with annex XIII of Regulation (EC) no. 1907/2006, PBT and vPvB criteria do not apply to inorganic substances.

##### 2.3.2 Physical and chemical hazards

Fertilisers are not combustible but may feed combustion, even in the absence of air. When heated, they fuse and at higher temperatures may decompose, releasing toxic gases containing nitrogen and ammonia oxides and, depending on the mixture, hydrogen chloride, sulphur oxides and phosphorus. They are highly resistant to detonation. Heating in confined spaces may lead to explosive behaviour depending on the concentration of ammonium nitrate.

##### 2.3.3 Health hazards

Fertilisers are harmless substances when handled correctly. However, the following factors should be taken into consideration:

Contact with skin: Prolonged contact may cause irritation.

Contact with eyes: Prolonged contact may cause irritation.

Ingestion: It is unlikely that consuming small quantities of fertiliser will have toxic effects. Ingesting large quantities can lead to gastrointestinal distress and, in extreme cases, (especially in children) may lead to the development of methemoglobin and cyanosis.

Inhalation: A high concentration of dust may cause nose and upper respiratory tract irritation that will result in symptoms such as a sore throat and cough.

Long-term effects: There are no known adverse effects.


##### 2.3.4 Environmental hazards

These fertilisers contain nitrates and phosphates and small amounts of micronutrients such as zinc or copper may be added. Large spills can cause negative impacts, such as eutrophication of confined surface waters or nitrate contamination (see section 12).

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### Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS

The product is a mixture, as per REACH Regulations. The product is not capable of self-sustained decomposition.

Name	REACH No.	CAS No.	EC No.	% (p/p)	Classification
					Regulation (EC) No. 1272/2008
Ammonium Nitrate	01-2119490981-27-0039	6484-52-2	229-347-8	>45% < 70%	H272; H319 <sup>(2)</sup>
Ammonium Sulphate	01-2119455044-46	7783-20-2	231-984-1	< 10%	Not classified
Monoammonium phosphate	01-2119488166-29	7722-76-1	231-764-5	10-15%	Not classified
Diammonium phosphate	01-2119490974-22	7783-28-0	231-987-8	10-15%	Not classified
Additives <sup>(1)</sup>	Not applicable			0 – 5	Not classified

<sup>(1)</sup> Other substances may be added in quantities that do not affect the product classification.

<sup>(2)</sup> Mixtures containing less than 80% ammonium nitrate are not classified as eye irritants (OECD 405 and OECD 437 test methods used for similar mixtures).

See section 16 for the full text of H hazard warning codes.

### Section 4 – FIRST AID MEASURES

#### 4.1 Description of first aid practices

Recommended general precautions: Seek medical advice when necessary.

Contact with skin: Wash the affected area with water.

Contact with eyes: Immediately wash/rinse eyes with copious amounts of clean water for at least 15 minutes, lifting your upper and lower eyelids from your eye. If you wear contact lenses, remove them if possible. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Drink water. Seek medical attention if a large amount of the product has been ingested.

Inhalation: Immediately remove the affected person from the contaminated area and take them to a place with fresh air. Consult a doctor if adverse symptoms occur.

#### 4.2 Most significant symptoms and effects, whether acute or delayed

Effects on pulmonary functioning may be delayed.

#### 4.3 Instructions for immediate medical attention and any special treatment necessary

Inhaling gases from a fire or those produced by thermal decomposition and that contain nitrogen and ammonia oxides may cause irritation and have corrosive effects on the respiratory system. Administer oxygen (if a competent professional is present) especially if the area around the mouth has a blue tinge (Methemoglobinemia). Once exposed to the toxic fumes of gases produced via thermal decomposition, the person affected should be kept under medical supervision for at least 8 hours to prevent pulmonary oedema.

### Section 5 – FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Non-combustible. Use appropriate methods to extinguish the surrounding fire. If the product is caught in the fire, use plenty of water. If it is possible to do so safely, separate or spread the piles and remove any unaffected product to limit the spread of the fire.

Suitable: Water.

Unsuitable: Do not use chemical powder or foam extinguishers. Do not attempt to limit oxygen to the fire using steam or sand.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards: May be explosive if confined during a fire or when in contact with incompatible substances (see section 10). Avoid contaminating water sources.

Hazardous products of decomposition or combustion: Nitrogen and ammonia oxides and phosphorus and sulphur oxides.

#### 5.3 Advice for fire-fighters

Special fire-fighting procedures: Open doors and windows to ensure maximum ventilation. Avoid inhaling (toxic) fumes. Stay upwind of the fire. Avoid contamination with incompatible materials.

Special protective fire-fighting equipment: Wear self-contained breathing apparatus and chemical protective clothing.



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### Section 6 – ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid walking over the product and breathing dust that may contain particles of the mixture. Wear suitable protective clothing (see section 8).

#### 6.2 Environmental precautions

Avoid contamination of water courses or drains. Do not place directly into water courses. Contact the relevant authorities in the event of accidental contamination of drains or water courses.

#### 6.3 Methods and material for containment and cleaning up.

Any fertiliser spillage should be cleaned-up promptly and placed in a labelled open container for safe dust-free disposal. In the event of a large spillage, contain with inert material (sand or limestone). Do not mix with sawdust or other combustible or organic substances.

#### 6.4 Reference to other sections

See section 1 for emergency contact information, section 8 for information on personal protective equipment and section 13 for waste disposal information.

### Section 7 – HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid creating excessive amounts of dust. Avoid contamination with combustible materials (e.g. diesel and fat) and incompatible materials. Avoid unnecessary exposure to air to prevent moisture absorption. Wear gloves when handling the product for long periods of time. Carefully clean all equipment before carrying out servicing and repair operations.

#### 7.2 Conditions for safe storage, including any incompatibilities

In the field, make sure fertilisers are not stored near hay, straw, diesel, etc. Ensure compliance with good storage and cleaning practice in storage areas. Do not use naked bulbs. Restrict the height of stacks (in accordance with local or national regulations) and maintain a minimum distance of 1 metre between the stacks of bagged product. Any building used for storage purposes must be dry and well ventilated. To avoid the physical destruction of the product due to thermal cycles, do not store in direct sunlight.

No smoking, sparks or naked flames.

Packaging: Use synthetic plastic or steel packaging. Avoid using copper and zinc.

#### 7.3 Specific end uses

See section 1.2.

### Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Occupational exposure limits: Not established.

Recommended value for inhalable particles: **TLV-TWA: 10 mg/m<sup>3</sup>**

#### Derived no-effect level (DNEL)

Levels of exposure resulting in systematic effects <sup>1</sup>	Industrial/professional workers			Consumer		
	Oral <sup>2</sup> (mg/kg per/day)	Cutaneous <sup>2</sup> (mg/kg per/day)	Inhalation <sup>2</sup> (mg/m <sup>3</sup> )	Oral <sup>2</sup> (mg/kg per/day)	Cutaneous <sup>2</sup> (mg/kg per/day)	Inhalation <sup>2</sup> (mg/m <sup>3</sup> )
<b>Ammonium Nitrate</b>	Not applicable	21.3	37.6	12.8	12.8	11.1
<b>Ammonium Sulphate</b>	Not applicable	42.667	11.167	6.4	12.8	1.667
<b>Monoammonium phosphate</b>	Not applicable	34.7	6.1	2.1	20.8	1.8
<b>Diammonium phosphate</b>	Not applicable	34.7	6.1	2.1	20.8	1.8

#### Predicted no-effect concentration (PNEC)

Maximum amount for environment <sup>1</sup>	Fresh water (mg/l)	Salt water (mg/l)	Intermittent emissions (mg/l)	Air (mg/m <sup>3</sup> )	Soil (mg/kg)	Micro-organisms (mg/l)	Sedimentary (mg/kg)	Oral
<b>Ammonium Nitrate</b>	0.45	0.045	4.5	Not available	Not available	18	Not applicable	Not applicable
<b>Ammonium Sulphate</b>	0.312	0.0312	0.53	Not available	62.6	16.18	6.063	
<b>Monoammonium phosphate</b>	1.7	0.17	17	Not available	Not available	10	Not available	
<b>Diammonium phosphate</b>	1.7	0.17	17	Not available	Not available	10	Not available	

1: According to the chemical evaluation carried out

2: As no acute toxicity was identified, which would lead to the product being classified and labelled as such, long-term DNEL is considered sufficient to ensure acute exposure to the substance does not cause adverse effects (according to the ECHA Guide on information requirements and chemical safety assessment: Chapter R.8: Characterisation of dose [concentration] - response to human health, May 2008 and part B: hazard assessment (*draft* version) new chapter B.8 Scope of Exposure Assessment, March 2010).

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#### 8.2 Exposure controls

Appropriate engineering controls: Avoid exposure to dust and provide local exhaust ventilation when necessary.

Hygiene measures: Do not eat, drink or smoke when handling the product. Wash hands, forearms and face after handling the product, before resting or going to the bathroom and at the end of the period of work. Always comply with good hygiene practices.

Personal protection measures, specifically personal protective equipment

Respiratory protection: Wear an appropriate dust mask or mask with an appropriate filter when the concentration of dust is high and/or ventilation is inadequate, (e.g. EN 143, 149, P2 or P3 filter).

Skin and body protection: Wear suitable protective clothing.

Hand protection: Wear suitable gloves (e.g. rubber or leather) when handling the product for long periods of time.

Eye and face protection: Wear safety eyewear (EN 166).

Environmental exposure controls: Provide product containment and confinement (See section 6.2)

### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance, 20°C and 1013 hPa	Grey, white solid
Odour	Odourless
pH in 10% aqueous solution	5-7
Fusion Point	Depends on mixture
Boiling point	> 210 °C (decomposes)
Flash Point	> 210 °C (decomposes)
Evaporation Rate	Not applicable
Flammability	Not flammable
Lower and Upper Explosive Limits	Not applicable
Vapour pressure at 20°C	Not applicable
Vapour Density	Not applicable
Relative density	Not applicable
Solubility	Soluble in water. Hygroscopic.
N-octanol/water partition coefficient	-3.1 (for the ammonium nitrate ingredient)
Auto-ignition temperature	Not flammable
Decomposition temperature	> 210 °C
Viscosity	Not applicable
Explosive Properties	Highly resistant to detonation. Resistance decreases in the presence of contaminants and/or high temperatures. Heating in contaminated spaces (pipes or drains) may lead to violent reaction or explosion, especially in the event of contamination by the substances mentioned in section 10.
Oxidising properties	Not classified as oxidising, but may aid combustion

#### 9.2 Other information

Bulk density	Usually between 900-1100 Kg/m <sup>3</sup>
Average grain size	2.00 – 5.00 mm

### Section 10 – STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under recommended storage and handling conditions (see section 7).

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

#### 10.3 Possibility of hazardous reactions

Decomposes releasing nitrogen, sulphur and oxides and sulphur and phosphorous oxides when strongly heated. Possibility of hazardous reactions due to contamination with incompatible materials.

#### 10.4 Conditions to avoid


Avoid storing in hot areas or direct sunlight. Heating (decomposes into gases). Contamination with incompatible substances. Unnecessary exposure to air. Proximity to sources of heat and fire. Hot confined areas. Areas where welding or other work involving heat is being carried out on equipment that contained the product without first having washed it to remove all traces.

#### 10.5 Incompatible materials

Combustible material, reducing agents, acid, base chemicals, sulphur, chlorates, chlorites, chromates, nitrites, permanganates, metal powders and substances containing copper, nickel, cobalt, zinc and their alloys. Upon contact with alkaline substances, such as lime, it may release gaseous ammonia.

#### 10.6 Hazardous decomposition products

In the event of a fire: see section 5. When heated, decomposes by releasing toxic gases containing nitrogen and ammonia oxides and, depending on the mixture, hydrogen chloride, sulphur and phosphorus oxides.

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### Section 11 – TOXICOLOGICAL INFORMATION


#### 11.1 Information on toxicological effects

Acute effects	Ingredient	Species	Administration method	Method	Result
Acute effects	Ammonium Nitrate	Mouse	Oral	OCDE 401	LD <sub>50</sub> : 2950 mg/kg pc
	Ammonium Sulphate			OCDE 401	LD <sub>50</sub> : 4250 mg/kg pc
	Monoammonium phosphate			OCDE 425	LD <sub>50</sub> :> 2000 mg/kg pc
	Diammonium phosphate			OCDE 425	LD <sub>50</sub> :> 2000 mg/kg pc
Local Effects	Ingredient	Species	Administration method	Method	Result
Irritation/Corrosion	Ammonium Nitrate	Rabbit	Cutaneous	OCDE 404	Non-irritant
			Ocular	OCDE 405	Irritant
	Ammonium Sulphate		Cutaneous	OCDE 404	Non-irritant
			Ocular	-	Non-irritant
	Monoammonium phosphate		Cutaneous	OCDE 404	Non-irritant
			Ocular	OCDE 405	Non-irritant
	Diammonium phosphate		Cutaneous	OCDE 404	Non-irritant
			Ocular	OCDE 437	Non-irritant
Sensitivity	Ammonium Nitrate	No known adverse effects			
	Ammonium Sulphate				
	Mono/ diammonium phosphate				
Others	Ingredient	Result			
Chronic / reproductive toxicity	Ammonium Nitrate	No known adverse effects			
	Ammonium Sulphate				
	Mono/ diammonium phosphate				
Mutagenicity	Ammonium Nitrate	No known adverse effects Negative Ames test			
	Ammonium Sulphate				
	Mono/ diammonium phosphate				
Carcinogenicity	Ammonium Nitrate	No known adverse effects			
	Ammonium Sulphate				
	Mono/ diammonium phosphate				

### Section 12 – ECOLOGICAL INFORMATION

#### 12.1 Toxicity

	Ingredient	Species	Period	Method used	Result
Aquatic toxicity	Ammonium Nitrate	Fish	48-h	-	LC <sub>50</sub> : 447 mg/l
		Daphnia	-	-	EC <sub>50</sub> : 555 mg/l
		Algae	-	-	EC <sub>50</sub> : 83 mg/l
		Algae	72-h	OCDE 201	EC <sub>50</sub> : >87.6 mg/l
	Ammonium Sulphate	Fish	96-h	-	LC <sub>50</sub> : 53 mg/l
		Daphnia	48-h	-	EC <sub>50</sub> : >169 mg/l
		Algae	5-d	-	EC <sub>50</sub> : >1605 mg/l
	Monoammonium phosphate	Fish	96-h	OCDE 203	LC <sub>50</sub> : 85.9 mg/l
		Daphnia	72-h	-	EC <sub>50</sub> : 1790 mg/l
		Algae	72-h	OCDE 201	EC <sub>50</sub> : 97.1 mg/l
	Diammonium phosphate	Fish	96-h	-	LC <sub>50</sub> : 1700 mg/l
		Daphnia	72-h	-	EC <sub>50</sub> : 1790 mg/l
		Algae	5-d	OCDE 201	EC <sub>50</sub> : > 100 mg/l

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**12.2 Persistence and degradability**

	Ingredient	Result
Biodegradation	Ammonium Nitrate	Not relevant for inorganic substances
	Ammonium Sulphate	
	Mono/diammonium phosphate	
Hydrolysis	Ammonium Nitrate	Not hydrolysable. Dissociates into ammonium and nitrate ions
	Ammonium Sulphate	Not hydrolysable. Dissociates into ammonium and sulphate ions
	Mono/diammonium phosphate	Not hydrolysable. Dissociates into ammonium and phosphate ions
Photolysis	Ammonium Nitrate	Information not available
	Ammonium Sulphate	
	Mono/diammonium phosphate	

**12.3 Bioaccumulative potential**

	Ingredient	Result
Octanol-water partition coefficient (K <sub>ow</sub> ):	Ammonium Nitrate	Not relevant for inorganic substances
	Ammonium Sulphate	
	Mono/diammonium phosphate	
Bioconcentration Factor (BCF):	Ammonium Nitrate	Information not available
	Ammonium Sulphate	
	Mono/diammonium phosphate	

**12.4 Mobility in soil**

	Ingredient	Result
Adsorption coefficient	Ammonium Nitrate	Low potential for adsorption (based on substance properties)
	Ammonium Sulphate	
	Mono/diammonium phosphate	

**12.5 Results of PBT and vPvB assessment**

In accordance with Annex XIII to Regulation (EC) 1907/2006, the PBT and vPvB assessment is not performed for inorganic substances.

**12.6 Other adverse effects**

Large spills can cause adverse environmental impacts such as confined surface water eutrophication.

**Section 13 – DISPOSAL CONSIDERATIONS**

**Waste treatment methods:** Depending on the degree and nature of the contamination, make it available for use as a fertiliser, use as feedstock for liquid fertilisers or re-route to an authorised collection point. The substance should be disposed of in accordance with Directive 2008/98 / EC. Avoid contaminating water courses. Inform the relevant authorities in the event of contamination.

**Packaging:** Empty bags can be recycled.

**Section 14 – TRANSPORT INFORMATION**


International Transport Regulations				
Regulatory information	ADR/RID	ADNR	IMDG	IATA
UN No.	Not classified			
Name	Ammonium nitrate fertilisers, homogeneous nitrogen/phosphate, nitrogen/potassium or nitrogen/phosphate/potassium mixtures containing no more than 70% ammonium nitrate and no more than 0.4% total combustible matter/organic matter expressed as carbon equivalent fuels			
Class	Not classified (type C)			
GE	Not classified			
Label				
Environmental Hazards				
Special precautions for users				

**Section 15 – REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) 2003/2003 (fertilisers)
- Regulation no. 1907/2006/EC (REACH) and Regulation 453/2010
- Regulation (EU) 2015/830
- Classification according to Regulation 1272/2008 (CLP)

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**15.2 Chemical Safety Assessment**

In accordance with Article 14 of REACH, the chemical safety assessment was performed for ammonium nitrate, ammonium sulphate, monoammonium phosphate and diammonium phosphate as substances.

**Section 16 – OTHER INFORMATION**

**16.2 Abbreviations and acronyms:** **ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road; **CAS:** Chemical Abstract Service; **EC:** European Commission; **CLP:** Regulation (EC) no. 1272/2008; **DNEL** Derived no-effect level; **DSD:** Directive 67/548/EEC; **EINECS:** European Inventory of Existing Commercial Chemical Substances; **EC50** median effective concentration; **IATA:** International Air Transport Association; **IMDG:** International Maritime Dangerous Goods; **LC50** Lethal concentration 50%; **LD50** Lethal dose 50%; **vPvB:** very persistent and very bio accumulative; **NOAEC** No observed adverse effect concentration; **NOAEL** No observed adverse effect level; **NOEC** No observed effect concentration; **OECD:** Organisation for Economic Co-operation and Development; **PBT** Persistent bioaccumulation and toxicity; **PNEC** Predicted no effect concentration **STEL** Short-term exposure limit; **EU:** European Union.

**16.3 Key literature references and sources for data**

- Guidance documentation available on the European Chemicals Agency (ECHA) website
- [www.fertilizerseurope.com](http://www.fertilizerseurope.com) ("Guidance for the compilation of safety data sheets for fertiliser materials, EFMA, 2008")
- "Assessment of the classification as eye irritant of fertilisers containing SSP and/or TSP, EFMA, 2013"

**16.4 Classification for mixtures and used evaluation method according to regulation (EC)****1207/2008 [CLP]**

- Classification and Labelling according to Regulation no.1272/2008 (CLP), Annex VI:

- Not classified

- Classification and Labelling according to Regulation no. 1272/2008 (CLP), via auto-classification based on the Chemical Safety Assessment (CSA) conducted:

- Not classified

**16.7 Further information**

**Date edited:** 06/07/2019  
**Previous edition:** 26/02/2018  
**Changes in this edition:** -

The information contained in this safety data sheet is provided in good faith and the accuracy of this information is based on current knowledge of the product at the time of its publication. Under no circumstances does it imply acceptance by the company of any commitment or legal responsibility for the consequences of its use or misuse.

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